

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

Claims 1-27 are canceled.

28. (Currently Amended) A method executed in a travel planning system for providing a predicted answer in response to a seat availability query from a user, the method comprising:

~~storing queries and answers from previously completed seat availability queries in a availability predictor cache database;~~

~~retrieving a stored query from a cache that stores seat availability queries and answers to seat availability queries stored from previously completed seat availability queries sent to revenue management systems;~~

~~determining whether at least some fields in the stored seat availability query sufficiently determining by the availability predictor, whether a stored query match[[es]] corresponding fields in the user's seat availability query;~~

~~retrieving an answer, if any, from the cache database corresponding to the stored query matching the seat availability query from the cache;~~

~~determining by the availability predictor, whether the retrieved answer is not stale; and if the retrieved answer is not stale:~~

~~returning the retrieved answer or answers, if any, as the predicted answer to the user's seat availability query;-----~~

~~if the retrieved answer is stale, sending an actual availability query to an airline availability system that includes a revenue management algorithm and inventory management system;~~

~~returning the actual answer received from the airline availability system to the user; and~~

~~storing the actual answer and query in the cache database of the availability predictor.~~

29. (Currently Amended) The method of claim 28 further comprising:  
storing queries and answers from previously completed seat availability queries in the  
cache; and

wherein storing queries includes storing one or more query fields for airline name, flight number, origination, destination, date of query, traveler nationality, point of purchase, frequent flyer status and seller data.

30. (Previously Presented) The method of claim 28 wherein storing answers further comprises:

storing one or more answer fields for booking codes and booking counts; and  
assigning a data parameter to the stored answer wherein assigning includes one or more parameters for time, date, source and user characteristics.

31. (Currently Amended) The method of claim 28 29 wherein determining whether at least some of the fields of a stored query matches the user's seat availability query further comprises:

parsing the user's availability query into query fields; and  
matching the query fields of the availability query to the query fields stored in the cache database.

32. (Currently Amended) The method of claim 28 31 wherein matching further comprises:

exactly matching the query fields in the availability query to the query fields of a query stored in the cache database.

33. (Currently Amended) The method of claim 28 34 wherein matching further comprises:

approximately matching the query fields in the availability query to at least some of the query fields of a query stored in the cache database.

34. (Currently Amended) The method of claim 28 30 wherein ~~determining whether the retrieved answer is not stale further comprises:~~

~~retrieving a time parameter corresponding to the retrieved answer; and  
comparing the time parameter to a threshold time, the threshold time being a preset time period;~~

if the retrieved answer is stale, sending an actual availability query to an airline availability system that includes a revenue management algorithm and inventory management system;

returning the actual answer received from the airline availability system to the user; and  
storing the actual answer and query in the cache database of the availability predictor

35. (Currently Amended) The method of claim 30 wherein determining whether the retrieved answer is not stale further comprises:

retrieving a time stamp parameter corresponding to the retrieved answer;  
determining a threshold time; and  
comparing the time stamp parameter to the threshold time.

36. (Previously Presented) The method of claim 35 wherein determining a threshold time further comprises:

determining a threshold time according to one or more query factors, said query factors including a date of a flight, an origin of a flight, a destination of a flight, a time of flight, a day of week per flight, a size of the airplane, an actual answer to a completed query that matches the

seat availability query and an actual answer to a completed query that does not match the seat availability query.

37. (Currently Amended) The method of claim 28 wherein returning the retrieved answer ~~or answers, if any,~~ as the predicted answer to the user's seat availability query further comprises:  
determining that the retrieved answer from the cache database is stale;  
returning the retrieved answer as the predicted answer where the predicted answer includes a confidence factor corresponding to the predicted answer; and  
accepting the predicted answer, or not, based on the confidence factor.

38. (Previously Presented) The method of claim 37 wherein the confidence factor indicates the answer to the seat availability query is based on an actual answer received in response to an actual availability query.

39. (Previously Presented) The method of claim 37 wherein the confidence factor indicates the answer to the seat availability query is true or false to indicate availability, or not, of a predicted answer in the cache database.

40. (Previously Presented) The method of claim 37 wherein the confidence factor indicates the answer to the seat availability query is within a certain estimated probability.

41. (Previously Presented) The method of claim 37 wherein the confidence factor indicates a qualitative measure of seat availability.

42. (Previously Presented) The method of claim 37 wherein returning the retrieved answer as the predicted answer including a confidence factor corresponding to the predicted answer further comprises:

predicting the confidence factor from previously completed seat availability queries in response to a request for a confidence factor.

43. (Previously Presented) The method of claim 42 wherein predicting produces a confidence factor according to a model using historical booking data as a factor in the model.

44. (Previously Presented) The method of claim 43 wherein the historical booking data includes one or more categories for booking rates according to flights, booking rates according to families of flights sold on different dates, booking rates according to aircraft capacity, booking rates based on labor strikes, booking rates according to sales or other booking rates based on extraordinary events.

45. (Previously Presented) The method of claim 42 wherein predicting produces a confidence factor according to a model using as a factor in the model a threshold time, which if lapsed, indicates that the retrieved answer is considered stale.

46. (Previously Presented) The method of claim 45 wherein the threshold time varies over the lapsing of time.

47. (Previously Presented) The method of claim 45 wherein the threshold time is a pre-set time.

48. (Previously Presented) The method of claim 45 wherein the threshold time is a pre-set time approximately equal to the time an airline is expected to adjust parameters effecting seat availability distributions per booking code.

Claims 49-55 are canceled.

56. (New) A computer program product residing on a computer readable medium for use by a travel planning system for providing a predicted answer in response to a seat availability query from a user, the computer program product comprising instructions for causing a computer to:

- retrieve a stored query from a cache that stores seat availability queries and answers to seat availability queries stored from previously completed seat availability queries sent to revenue management systems;

- determine whether at least some fields in the stored seat availability query sufficiently match corresponding fields in the user's seat availability query;

- retrieve an answer corresponding to the stored query matching the seat availability query from the cache;

- determine whether the retrieved answer is not stale; and, if the retrieved answer is not stale,

- return the retrieved answer as the predicted answer to the user's seat availability query.

57. (New) The computer program product of claim 56 further comprising instructions to:

- store queries and answers from previously completed seat availability queries in the cache with the queries including at least one query fields of airline name, flight number, origination, destination, date of query, traveler nationality, point of purchase, frequent flyer status and seller data.

58. (New) The computer program product of claim 56 further comprising instructions to:

- store booking codes and booking counts for answers; and

- assign a data parameter to the stored answer with the data parameters including at least one of time, date, source and user characteristics.

59. (New) The computer program product of claim 56 wherein instructions to match, further comprises instructions to:

exactly match the query fields in the availability query to the query fields of a query stored in the cache database.

60. (New) The computer program product of claim 56 wherein instructions to match, further comprises instructions to:

approximately match the query fields in the availability query to at least some of the query fields of a query stored in the cache database.

61. (New) The computer program product of claim 56, further comprises instructions to:  
send an actual availability query to an airline availability system that includes a revenue management algorithm and inventory management system if the retrieved answer is stale;  
return the actual answer received from the airline availability system to the user; and  
store the actual answer and query in the cache database of the availability predictor.

62. (New) The computer program product of claim 56, wherein instructions to determine whether the retrieved answer is not stale further comprises instructions to:

retrieve a time stamp parameter corresponding to the retrieved answer;  
determine a threshold time; and  
compare the time stamp parameter to the threshold time.

63. (New) The computer program product of claim 56 wherein instructions to determine a threshold time further comprises instructions to:

determine a threshold time according to one or more query factors, the query factors including a date of a flight, an origin of a flight, a destination of a flight, a time of flight, a day of week per flight, a size of the airplane, an actual answer to a completed query that matches the seat availability query and an actual answer to a completed query that does not match the seat availability query.

64. (New) The computer program product of claim 56 wherein instructions to returning the retrieved answer as the predicted answer to the user's seat availability query further comprises instructions to:

determine that the retrieved answer from the cache database is stale;

return the retrieved answer as the predicted answer where the predicted answer includes a confidence factor corresponding to the predicted answer; and

accept the predicted answer, or not, based on the confidence factor.

65. (New) The computer program product of claim 64 wherein the confidence factor indicates the answer to the seat availability query is based on an actual answer received in response to an actual availability query.

66. (New) The computer program product of claim 64 wherein the confidence factor indicates the answer to the seat availability query is true or false to indicate availability, or not, of a predicted answer in the cache database.

67. (New) The computer program product of claim 64 wherein the confidence factor indicates the answer to the seat availability query is within a certain estimated probability.

68. (New) The computer program product of claim 64 wherein the confidence factor indicates a qualitative measure of seat availability.

69. (New) The computer program product of claim 64 wherein instructions to return the retrieved answer as the predicted answer including a confidence factor corresponding to the predicted answer further comprises instructions to:

predict the confidence factor from previously completed seat availability queries in response to a request for a confidence factor, according to a model using historical booking data as a factor in the model.



70. (New) The computer program product of claim 69 wherein instructions to predict produces a confidence factor according to a model using as a factor in the model a threshold time, which if lapsed, indicates that the retrieved answer is considered stale.

71. (New) A computer system for providing a predicted answer in response to a seat availability query from a user, the computer system comprising:

- a processor; and

- a computer readable medium storing a computer program product comprising instructions for causing the computer to:

- retrieve a stored query from a cache that stores seat availability queries and answers to seat availability queries stored from previously completed seat availability queries sent to revenue management systems;

- determine whether at least some fields in the stored seat availability query sufficiently match corresponding fields in the user's seat availability query;

- retrieve an answer corresponding to the stored query matching the seat availability query from the cache;

- determine whether the retrieved answer is not stale; and, if the retrieved answer is not stale,

- return the retrieved answer as the predicted answer to the user's seat availability query.

72. (New) The computer of claim 71 wherein the computer program product further comprises instructions to:

- store queries and answers from previously completed seat availability queries in the cache with the queries including at least one query fields of airline name, flight number, origination, destination, date of query, traveler nationality, point of purchase, frequent flyer status and seller data.

73. (New) The computer of claim 71 wherein instructions to match in the computer program product further comprises instructions to:

exactly match the query fields in the availability query to the query fields of a query stored in the cache database.

74. (New) The computer of claim 71 wherein instructions to match in the computer program product further comprises instructions to

approximately match the query fields in the availability query to at least some of the query fields of a query stored in the cache database.

75. (New) The computer of claim 71 wherein the computer program product further comprises instructions to:

send an actual availability query to an airline availability system that includes a revenue management algorithm and inventory management system if the retrieved answer is stale;

return the actual answer received from the airline availability system to the user; and

store the actual answer and query in the cache database of the availability predictor.

76. (New) The computer of claim 71 wherein instructions to returning the retrieved answer as the predicted answer to the user's seat availability query further comprises instructions to:

determine that the retrieved answer from the cache database is stale;

return the retrieved answer as the predicted answer where the predicted answer includes a confidence factor corresponding to the predicted answer; and

accept the predicted answer, or not, based on the confidence factor.

77. (New) The computer of claim 76 wherein the confidence factor indicates the answer to the seat availability query is based on an actual answer received in response to an actual availability query.

78. (New) The computer of claim 76 wherein the confidence factor indicates the answer to the seat availability query is true or false to indicate availability, or not, of a predicted answer in the cache database.

79. (New) The computer of claim 76 wherein the confidence factor indicates the answer to the seat availability query is within a certain estimated probability.

80. (New) The computer of claim 76 wherein the confidence factor indicates a qualitative measure of seat availability.

81. (New) The computer of claim 76 wherein instructions to return the retrieved answer as the predicted answer including a confidence factor corresponding to the predicted answer further comprises instructions to:

predict the confidence factor from previously completed seat availability queries in response to a request for a confidence factor, according to a model using historical booking data as a factor in the model.

82. (New) The computer of claim 81, wherein the instructions to predict, produces a confidence factor according to a model using as a factor in the model a threshold time, which if lapsed, indicates that the retrieved answer is considered stale.